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### STATEMENT OF WORK

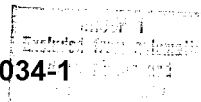
The Contractor proposes to supply direct engineering and support manpower, material and facilities to accomplish the tasks described below over a ten (10) month period on a cost plus award fee basis.

#### A. Study Tasks

- (1) Determine quantitative design parameters (e.g., input, output, and response requirements in terms of volumes, frequencies, rates, and types) for each ADP function of the system defined by the Conceptual Design and Functional Specifications (Report No. SCR 288). Develop alternative methods for performing these functions and evaluate these methods as applied in an integrated system design. During the development of the system design, the Contractor shall:
  - a. Investigate alternate methods for the handling of ephemeris data and establish the technique most amenable to utilization in the IIS.
  - b. Through experimentation, establish and obtain approval of suitable formats for the various readout worksheets.
  - c. Establish and obtain approval of the set of products to be generated by the IIS for both internal and external use.
  - d. Establish procedures for the transcription, entry and approval of material to be added to the data base.
  - e. Investigate alternatives for the various mensuration activities required at NPIC during both the immediate and detailed reporting cycles.
  - f. Investigate procedures for the prediction of the film location of targets and establish a method for target prediction which will meet the requirements of the IIS.
  - g. Investigate alternate procedures for the distribution of film, the assignment of personnel, and the selection of supporting materials to be used during the immediate reporting cycle.

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- h. Describe the scope of information to be handled by the IIS required to support imagery exploitation.
  - i. Develop a preliminary target data file structure.
  - j. Develop a preliminary file utilization program package.
  - k. Establish techniques for the retrieval of information stored in the data base.
  - l. Establish procedures which will meet established security regulations for the control of film and documents.
  - m. Establish procedures for the initiation of briefing boards and for the preparation of the supporting textual material.
  - n. Investigate procedures for the machine production of graphic materials and select methods suitable for inclusion in the IIS.
  - o. Determine how CHIVE, COINS and the data link should interface with the IIS.
  - p. The study efforts, a. through o. above, will be described in informal memoranda submitted as individual tasks are completed, for review and approval by NPIC. Approval or disapproval will be given within ten (10) working days of receipt at NPIC.
- (2) The results of the Task I analysis shall be reported in a formal study entitled, "NPIC IIS System Requirements." The study will describe the overall system operation, the input/output loading factors, and present a brief description of the system components and the interfaces between components.
- (3) Prepare detailed specifications for system components including hardware, computer programs and files in a document entitled, "Integrated Information System (IIS) Specifications." These specifications shall conform to a documentation standard agreed to by the technical monitor and the Contractor. It is understood that the specifications shall be sufficiently detailed to be directly applicable as attachments to Requests for Proposal to be sent to potential vendors. Classification shall be kept as low as feasible.
- (4) Prepare a detailed system implementation plan. This plan shall include schedules and budgetary costs for procurement and installation of hardware and facilities, generation of computer programs and files, manpower, training, system tests and the generation of final system documentation.

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B. Reports

In addition to continuing the regular Monthly Progress Letters required by the basic contract, per Specification DB 1001, 31 August 1966, the Contractor shall produce the following technical reports during the conduct of Phase II of the IIS study program:

- (1) A Detailed System Description for the IIS to be composed of two (2) parts: "NPIC IIS System Requirements" from Task A(2) above, and "IIS Specifications" resulting from Task A(3) above. The detailed specifications contained in the latter document should be issued as attachments to the System Requirements. The two documents should be so structured that they may be used either as a comprehensive Request For Proposal (RFP) for the entire hardware or software system, or may be divided into logical sub-sets and used as RFPs for these sub-sets. First attention will be given to long lead time components.
- (2) A Detailed System Implementation Plan reporting the results of Task A(4).